

CLIMATE CONFIGURABLE SOLE AND SHOE

Abstract

Disclosed are articles of footwear and soles therefor, in particular sports shoe soles that include openings for ventilation and vapor exchange. The soles include an insole layer with a plurality of first openings, a support layer with a plurality of second openings that partially overlap the plurality of first openings, and an outsole layer with at least one third opening that at least partially overlaps the plurality of second openings to provide fluidic communications through the sole from an interior of the shoe to an exterior of the shoe. A substantial portion of the plurality of first openings in the insole are interconnected to provide a path for diffusion. The shoes and soles can include a cushioning layer, a tread layer, a breathable membrane, and additional support elements. In addition, the shoes can be used with climate control socks to further enhance the climate control properties of the shoes.

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